INTERNATIONAL SEARCH REPORT

International application No.

			PCT/JP2	005/001943
	CATION OF SUBJECT MATTER CO7D223/28, 301/12, 301/14, 3 C07C201/12, 205/40, 205/16, C		2, C07B61/(00, 53/00,
According to Int	ernational Patent Classification (IPC) or to both national	l classification and IPC		
B. FIELDS SE				
Minimum docum Int.Cl	mentation searched (classification system followed by classification syste	301/19, 303/3	2, C07B61/(00, 53/00,
Documentation s	searched other than minimum documentation to the exten	nt that such documents	are included in the	fields searched
	pase consulted during the international search (name of description), CAOLD(STN), REGISTRY(STN		acticable, search te	rms used)
C. DOCUMEN	VTS CONSIDERED TO BE RELEVANT		-	
Category*	Citation of document, with indication, where app	propriate, of the relevan	nt passages	Relevant to claim No.
X Y	ABOUL-ENEIN, H.Y., Synthesis and biological activity of dibenz[c,e]azepines, Drug Design and Delivery, 1988 Nen, Vol.4, No.1, pages 27 to 33		1-3 4-19	
Y	JP 2000-198774 A (Shiratori Pharmaceutical Co., Ltd.), 18 July, 2000 (18.07.00), (Family: none)		4-19	
Y	CHINCHILLA, R., Enantiomerically Pure Guanidine-Catalysed Asymmetric Nitroaldol Reaction, tetrahedron: Asymmetry, 1994 Nen, Vol.5, No.7, pages 1393 to 1402		4-19	
X Further do	ocuments are listed in the continuation of Box C.	See patent fam	ily annex.	
"A" document defining the general state of the art which is not considered to be of particular relevance		date and not in con the principle or the	date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
 "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 		 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family 		
				Date of the actual completion of the international search 04 March, 2005 (04.03.05)
	ng address of the ISA/ se Patent Office	Authorized officer		

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2005/001943

Citation of document, with indication, where appropriate, of the relevant passages	5.1
	Relevant to claim No.
ALLINGHAM, M.T., Synthesis and applications of C_2 -symmetric guanidine bases, Tetrahedron Letters, 2003 Nen, Vol.44, No.48, pages 8677 to 8680	4-19
JP 2001-48866 A (Nagase & Co., Ltd.), 20 February, 2001 (20.02.01), & WO 01/81349 A1 & EP 1277755 A1 & US 6340753 B1	4-19
COI, T. et al., Design of N-Spiro C_2 -Symmetric Chiral Quaternary Ammonium Bromides as Novel Chiral Phase-Transfer Catalysts: Synthesis and Application to Practical Asymmetric Synthesis of α -Amino Acids, Journal of the American Chemical Society, 2003 Nen, Vol.125, No.17, pages 5139 to 5151	4-19
DOI, T., Practical Catalytic Enantioselective Synthesis of α,α-Dialkyl-α-amino Acids by Chiral Phase-Transfer Catalysis., J.Am.Chem. Soc., 2000 Nen, Vol.122, No.21, pages 5228 to 5229	4-19
DOI, T., Molecular Design of a C2-Symmetric Chiral Phase-Transfer Catalyst for Practical Asymmetric Synthesis of α-Amino Acids., J.Am.Chem.Soc., 1999 Nen, Vol.121, No.27, pages 6519 to 6520	4-19
UP 61-161266 A (HOFFMANN-LA ROCHE, F., UND CO. AG.), 21 July, 1986 (21.07.86), 3 IL 77521 A1	1-3
TOWN COMPANY CONTRACTOR TOWN	The etters, 2003 Nen, Vol.44, No.48, pages 8677 to 8680 The 2001-48866 A (Nagase & Co., Ltd.), 20 February, 2001 (20.02.01), 31 WO 01/81349 A1 & EP 1277755 A1 & US 6340753 B1 The et al., Design of N-Spiro C ₂ -Symmetric Chiral Quaternary Ammonium Bromides as Novel Chiral Phase-Transfer Catalysts: Synthesis and Application to Practical Asymmetric Synthesis of α-Amino Acids, Journal of the American Chemical Society, 2003 Nen, Vol.125, No.17, 20 September 1998 to 5151 The et al., Design of N-Spiro C ₂ -Symmetric Synthesis and Application to Practical Asymmetric Synthesis and Application to Practical Asymmetric Synthesis of α-Amino Acids, No.17, 20 September 1999 Nen, Vol.125, No.17, 20 September 1999 Nen, Vol.121, No.21, 20 September 1999 Nen, Vol.121, No.27, 20 September 1999 Nen, Vol.

Int. Cl	属する分野の分類(国際特許分類(IPC)) ⁷ C07D223/28, 301/12, 30 00, C07C201/12, 205/40,	1/14, 301/19, 303/32, 205/16, C07M7/00	C07B61/
B. 調査を行	丁った分野		
調査を行った Int. Cl	50c分野	1/14, 301/19, 303/32, 205/16, C07M7/00	C07B61/
最小限資料以外	トの資料で調査を行った分野に含まれるもの		
国際調査で使用 CAPLUS (STN),	月した電子データベース (データベースの名称、 CAOLD(STN), REGISTRY(STN)	調査に使用した用語)	
C. 関連する	5と認められる文献		1
引用文献の	J C DIA O J A DO J K IN		関連する
カテゴリー*	引用文献名 及び一部の箇所が関連すると	ときは、その関連する箇所の表示	請求の範囲の番号
X Y	ABOUL-ENEIN, H. Y., Synthesis and bielazepines, Drug Design and Delivery		1-3 4-19
Y	JP 2000-198774 A (白鳥製薬株式会社)	2000.07.18 (ファミリーなし)	4-19
Y	CHINCHILLA, R., Enantiomerically Puric Nitroaldol Reaction, Tetrahedron o. 7, pp. 1393-1402		4-19
区欄の続き	にも文献が列挙されている。	□ パテントファミリーに関する別	紙を参照。
* 引用文献のカテゴリー 「A」特に関連のある文献ではなく、一般的技術水準を示すもの 「E」国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの 「L」優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献(理由を付す) 「O」口頭による開示、使用、展示等に言及する文献 「P」国際出願日前で、かつ優先権の主張の基礎となる出願		の日の後に公表された文献 「T」国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの 「X」特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの 「Y」特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの 「&」同一パテントファミリー文献	
国際調査を完了	した日 04.03.2005	国際調査報告の発送日 22.03.2	2005
日本国	の名称及びあて先 国特許庁(ISA/JP) 『便番号100-8915 『千代田区霞が関三丁目4番 3号	特許庁審査官(権限のある職員) 安藤 倫世 電話番号 03-3581-1101	4P 9837 内線 3490

C(続き).	関連すると認められる文献			
引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号		
Y	ALLINGHAM, M. T., Synthesis and applications of C2-symmetric guani dine bases, Tetrahedron Letters, 2003年, Vol. 44, No. 48, pp. 8677-86	4-19		
Y	JP 2001-48866 A (長瀬産業株式会社) 2001.02.20 & WO 01/81349 A1 & E P 1277755 A1 & US 6340753 B1	4-19		
	00I, T. et al., Design of N-Spiro C ₂ -Symmetric Chiral Quaternary Ammonium Bromides as Novel Chiral Phase-Transfer Catalysts: Synth esis and Application to Practical Asymmetric Synthesis of α -Amino Acids, Journal of the American Chemical Society, 2003年, Vol. 125, No. 17, pages 5139-5151	4-19		
Y	00I, T., Practical Catalytic Enantioselective Synthesis of α , α -D ialkyl- α -amino Acids by Chiral Phase-Transfer Catalysis., J. Am. Chem. Soc., 2000年, VOL.122, NO.21, pp. 5228-5229	4-19		
Υ	00I, T., Molecular Design of a C2-Symmetric Chiral Phase-Transfer Catalyst for Practical Asymmetric Synthesis of α -Amino Acids., J. Am. Chem. Soc., 1999年, VOL.121, NO.27, pp.6519-6520	4-19		
A	JP 61-161266 A (HOFFMANN-LA ROCHE, F., UND CO. AG.) 1986.07.21 & IL 77521 A1 & US 4766115 A & HU 42267 A & DK 8600101 A & AU 86521 62 A & AU 594657 B & BR 8600080 A & CN 86100122 A & ES 550743 A1 & EP 192034 A & US 4833245 A	1-3		
	•			